

What is claimed is:

1. A structure for connecting a first member and a second member, comprising:

a first member having a peripheral wall portion including a stepped portion engaged with a second member, the peripheral wall portion being a deformed portion deformed inwardly of the stepped portion of the first member, the deformed portion having a thin shape provided by a cut section of the peripheral wall portion.

2. A connecting structure of a pipe connected to a passage formed in a member, comprising:

a projection portion provided so as to project from the pipe radially and outwardly;

a recess portion provided at an open end of the passage formed in the member and receiving the projection portion of the pipe; and

a peripheral wall portion engaged with the projection portion by bending and deforming the peripheral wall portion inwardly of the recess portion while cutting the peripheral wall portion in a thin shape at a distance from the recess portion so that the pipe inserted into the opening end of the passage in the member and the projection portion of the pipe has been received in the recess portion are connected.

3. The connecting structure of a pipe according to claim

2, wherein

the projection portion is formed in an annular shape on an outer periphery of the pipe,

the recess portion is formed in an annular shape on an outer periphery of the passage in the member, and

the peripheral wall portion is deformed inwardly in a continuous annular shape.

4. The connecting structure of a pipe according to claim 2, wherein

the projection portion is formed in an annular shape on an outer periphery of the pipe,

the recess portion is formed in an annular shape on an outer periphery of the passage in the member, and

the peripheral wall portion is bent and deformed inwardly at intermittent sections in a circumferential direction.

5. A connecting method for connecting a pipe to a passage formed in a member, comprising:

a first step of inserting the pipe in the passage formed in the member and receiving a flange portion formed on an outer periphery of the pipe in a recess portion formed at an open end of the passage in the member; and

a second step of, while cutting a peripheral wall portion of the recess portion in a thin shape, bending and deforming the cut portion of the peripheral wall portion inwardly to

engage the inwardly bent and deformed peripheral wall portion with the projection portion.

6. The connecting method of a pipe according to claim 5, wherein

the second step is achieved by pressure-piecing a blade portion having an inclined face portion into a peripheral edge of the recess portion.

7. The connecting method of a pipe according to claim 6, wherein

the flange portion and the recess portion are annular, and

the blade portion is continuously formed in an annular shape.

8. The connecting method of a pipe according to claim 6, wherein

the flange portion and the recess portion are annular, and

the blade portion is formed in plural sections intermittently in a circumferential direction.

9. The die used for connecting a pipe to a passage formed in a member, comprising:

a cylindrical blade tool having the continuous annular

blade portion, and

a die main body which fixes the cylindrical blade tool,  
wherein

the cylindrical blade tool can be divided into a plurality  
of divided bodies such that the pipe is insertable into a hollow  
portion of the cylindrical blade tool.

10. The die according to claim 9, wherein

the blade tool is provided in order to connect a plurality  
of pipes by the number corresponding to the number of the pipes,  
and

the blade tools adjacent to each other are fixed in the  
die main body so that blade portions thereof have been  
circumscribed.

11. The die used for connecting a pipe to a passage formed  
in a member, comprising:

a cylindrical blade tool having the plurality of  
intermittent blade portions extending in a circumferential  
direction, and

a die main body which fixes the cylindrical blade tool,  
wherein

the cylindrical blade tool is provided with a long groove  
which allows of insertion of a pipe between two blade portions  
adjacent in a circumferential direction.

12. The die according to claim 11, wherein

the blade tool is provided in order to connect a plurality of pipes by the number corresponding to the number of the pipes, and

the blade tools adjacent to each other are fixed in the die main bodies in a state that blade portions thereof have been circumscribed.